

F00042

F00042

NOAA FORM 76-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE	
DESCRIPTIVE REPORT	
Type of Survey	Field Examination
Field No.	
Registry No.	F00042
LOCALITY	
State	Maryland
General Locality	Baltimore Harbor
Sublocality	Thoms Cove
.....	
<u>1943</u>	
CHIEF OF PARTY	
.....	
LIBRARY & ARCHIVES	
DATE	

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as:

FE No.5 1943

DESCRIPTIVE REPORT

To accompany
HYDROGRAPHIC BOAT SHEET
5143 (field)

U. S. C. & G. S. LYDONIA

L. P. Raynor, Chief of Party.

November 1943

Scale 1 - 5000

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 5143

REGISTER NO.

State Maryland

General locality Thoms Cove, Baltimore Harbor.

Locality Thoms Cove

Scale 1:5000 Date of survey November 17, 1943

Vessel U. S. C. & G. S. S. LYDONIA

Chief of Party L. P. Raynor

Surveyed by C. J. Wagner

Protracted by

Soundings penciled by

Soundings in ~~fathoms~~ feet

Plane of reference Mean low water

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated November 6, 1943, 19

Remarks:

22-RCC
1995 LY 4

November 6, 1943

To: Lieut. Comdr. L. P. Raynor
U. S. Coast and Geodetic Survey

From: The Director
U. S. Coast and Geodetic Survey

Subject: Revision Survey in Baltimore Harbor, Maryland

In Thoms Cove, just west of Hawkins Point, on the west side of Baltimore Harbor, a new pier has been constructed. Dredging and fill operations have accompanied this pier construction, making it advisable to do field work for chart revision purposes.

The Launch FARIS was originally assigned this revision survey, but after conference with the Officer in Charge of the FARIS, it was decided that this work could be accomplished more economically by your party while you are based at Baltimore. You will therefore please make a hydrographic revision survey of the newly dredged area in Thoms Cove so that this area can be correctly charted. The scale of this work shall be 1:5000, or larger, and the spacing of sounding lines shall seldom exceed 50 meters.

The standard tide gage at Fort McHenry will provide satisfactory reduction values for your sounding records.

No detailed topography need be accomplished as it is planned to obtain aerial pictures of the Baltimore Harbor area soon. It may be necessary, however, to establish a few hydrographic signal sites by graphic control on an aluminum-mounted sheet, or by taking rounds of sextant angles. If graphic control is accomplished, the shoreline in the immediate vicinity of each setup shall be detailed.

Triangulation and other data are being forwarded under separate cover.

You will please acknowledge the receipt of this letter.

(Signed) J. H. HAWLEY

Acting | Director

CC: Chart Division
Southeastern District

Charts

7503
82 RWC
83 HET
821

504
JH
HE

Descriptive Report
to accompany
Hydrographic Sheet 5143(field)(Boat Sheet)

U. S. C. & G. S. S. LYDONIA,

L. P. Raynor, Commdg.

INSTRUCTIONS dated November 6, 1943, 22-RCC 1995 LY 4

Area

This survey covers the dredged channel leading to the pier in Thoms Cove, Baltimore Harbor, Maryland.

Methods

Standard surveying methods were used. The range lights and light pole on the pier were located by sextant fixes on triangulation and topographic stations previously located. The 808 fathometer was used to obtain the soundings, and bar checks were taken before and after the hydrography. The bar check curves were drawn and the soundings reduced before plotting on the boat sheet.

Bottom

Bottom samples were taken at all the navigation buoys and at the two hand lead soundings for comparison. The bottoms were all soft mud and the leadman reported that the lead would sink in the mud about a foot each time.

Channel

The limiting depth as found on this survey is 33 feet at MLW to the north side of the pier. A spot of 29 feet, about 50 meters southeast of the end of the pier, limits the depth to the south side.

Comparison with previous surveys

The depths as shown on this sheet are generally 1 foot shoaler than the depths shown on sheet H-4371, in the area outside the dredged channel. As the mud is soft, the difference could be caused by the sinking of the lead in the mud. The fathometer soundings were read from the surface of the mud.

Miscellaneous

Two prints of the survey by the U. S. Army Engineers are inclosed with the sheet. These prints were obtained from the District Engineer, Baltimore, Maryland. Apologies were extended that these were not forwarded in reply to the Director's request at an earlier date. The District Engineer's office informed the writer that they are doing more surveying at the present time, with soundings taken on 100 foot lines. A request was made that the prints of these surveys be forwarded as soon as complete.

A tracing of the soundings from this (sheet 5143) survey has been furnished the District Engineer's office, Baltimore, Maryland. They plan to investigate the shoal soundings obtained by this party.

Statistics

Number of Hand Lead soundings	12
Number of positions	83
Statute Miles of Hydro.	6.6
Area, sq. stat. miles	0.08

Tidal note

The soundings on the boat sheet were reduced from predicted tides, Baltimore, Maryland. The tide station at Fort McHenry is to be used for the final reduction.

Clifton J. Wagner
Clifton J. Wagner,
Lieutenant, C. & G. Survey.

Approved and forwarded

L. P. Raynor
L. P. Raynor,
Lieut. Commander, C. & G. Survey,
Chief of Party.

applied to ch. 545 11/26/43 LPE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REFER TO NO.

LETTER TRANSMITTING FIELD RECORDS

1943 NOV 22 AM 11:11

Baltimore, Maryland

November 20, 1943, 19

To: The Director, U. S. Coast and Geodetic Survey, Washington, D. C.

From: L. P. Rayner, C. and G. Survey, Chief of Party.

Subject: Records.

Records as listed below were forwarded to you by registered mail
(Ordinary mail, registered mail,

express, G. B. L. (give number)) on November 20, 22, 1943
(Date records were forwarded)

(NOTE.—A separate copy of this form is to be used for each of different kinds of records, as tidal data, seismology, geomagnetism, etc. If this form covers the transmission of more than one package of a particular kind of record the form is to carry a statement of the number of packages and an executed copy of the form is to be included in each package.)

Pkg No 4 containing:

- 1 sounding record, Sheet 5143 (field)
- 1 fathogram, 808 fathometer, above sheet.
- 1 Descriptive Report, above sheet.
- 1 Title sheet.
- 1 graph, bar checks and tide curve.

Pkg. No. 5 containing:

- 1 Boat sheet, 5143 (field)
- 2 prints, U. S. Army Engineers, RESTRICTED

Data furnished by the office in connection with above survey is being retained aboard ship.

Received the above:

C. and G. Survey, Chief of Party.

Chief Clerk, Coast and Geodetic Survey.

This form and one copy should be sent to the office. The copy will then be returned as a receipt. This form should not be used for correspondence.

List of Signals

Sheet 5143 (field)

LYDONIA 1943

Triangulation stations:

Fort Carroll L. H. (Carroll)
Quarantine Station tank (Ran)
Brewerton Chan. Fr. Range Lt. (Brew)
Pan. Amer. Ref. Co. stack (Pan)

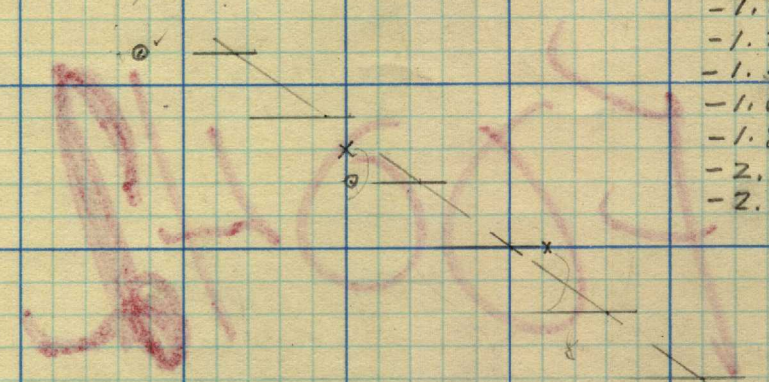
Topographic:

Arm from Air Photo. Comp. T-5342

0 10 20 30 40

-1.0

-2.0



+0.2	under 7.3 feet
0.0	7.4 thru 10.0
-0.2	10.1 " 13.0
-0.4	13.1 " 16.0
-0.6	16.1 " 18.8
-0.8	18.9 " 21.6
-1.0	21.7 " 24.4
-1.2	24.5 " 27.3
-1.4	27.4 " 30.0
-1.6	30.1 " 33.0
-1.8	33.1 " 36.0
-2.0	36.1 " 38.8
-2.2	38.9 " 41.6

362
24
338

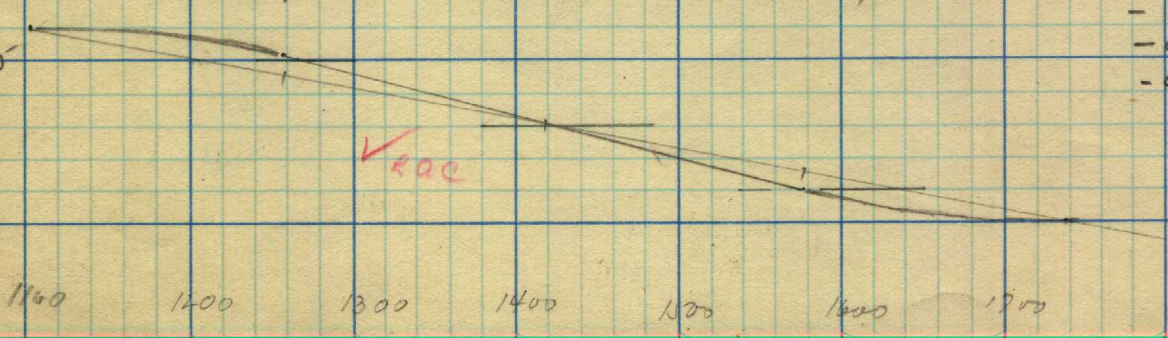
37
24
46

1.0

0.5

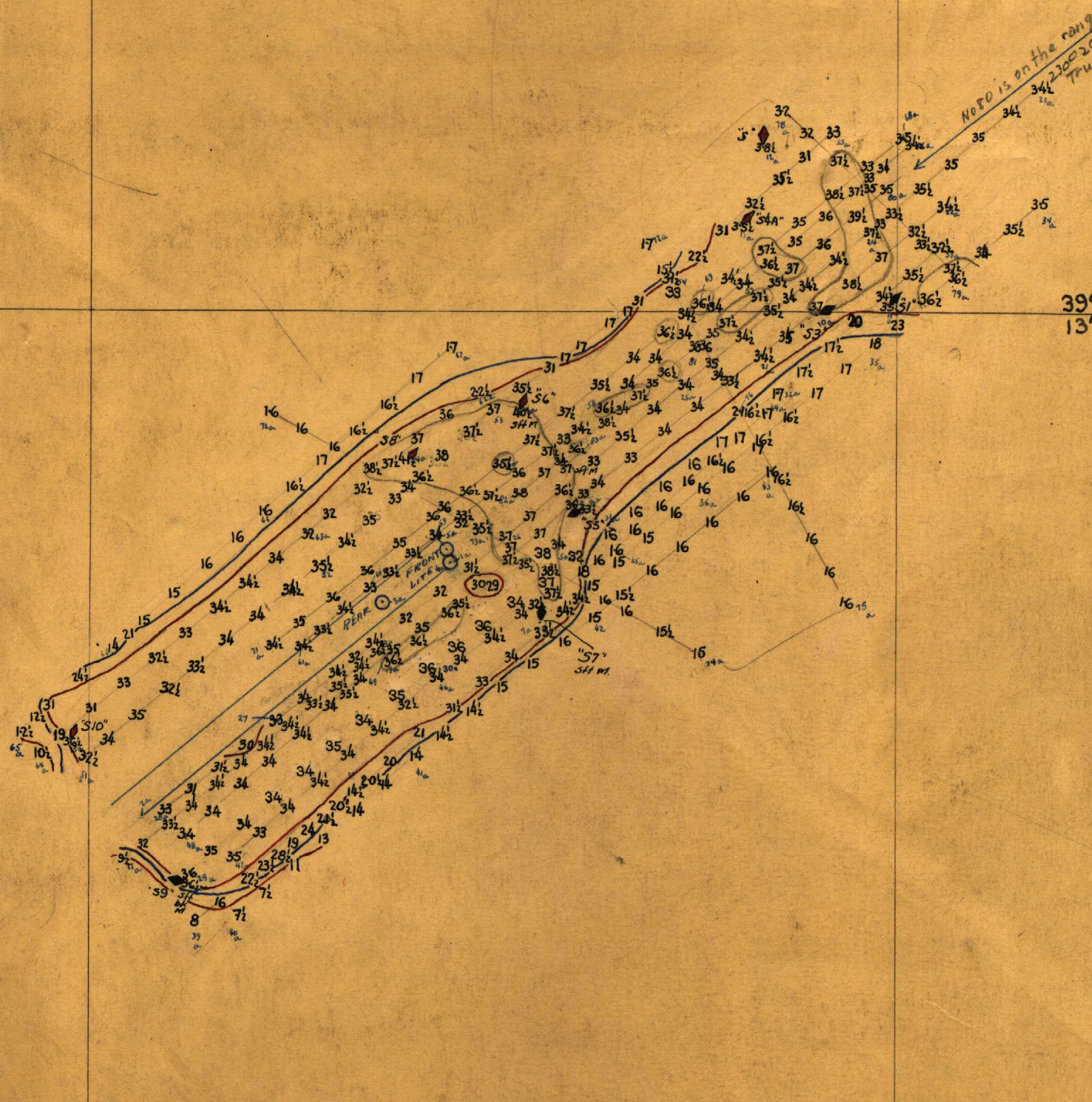
0

Nov. 17, 1943 Predicted tides Baltimore, Md.



-0.6	1100 thru 1240
-0.4	1240+ " 1412
-0.2	1412+ " 1545

by CFW
✓ RHR



Lydonia Nov. 1943 Field 5143
Scale 1:5,000

ARM
Flagpole

ARMISTEAD 1934

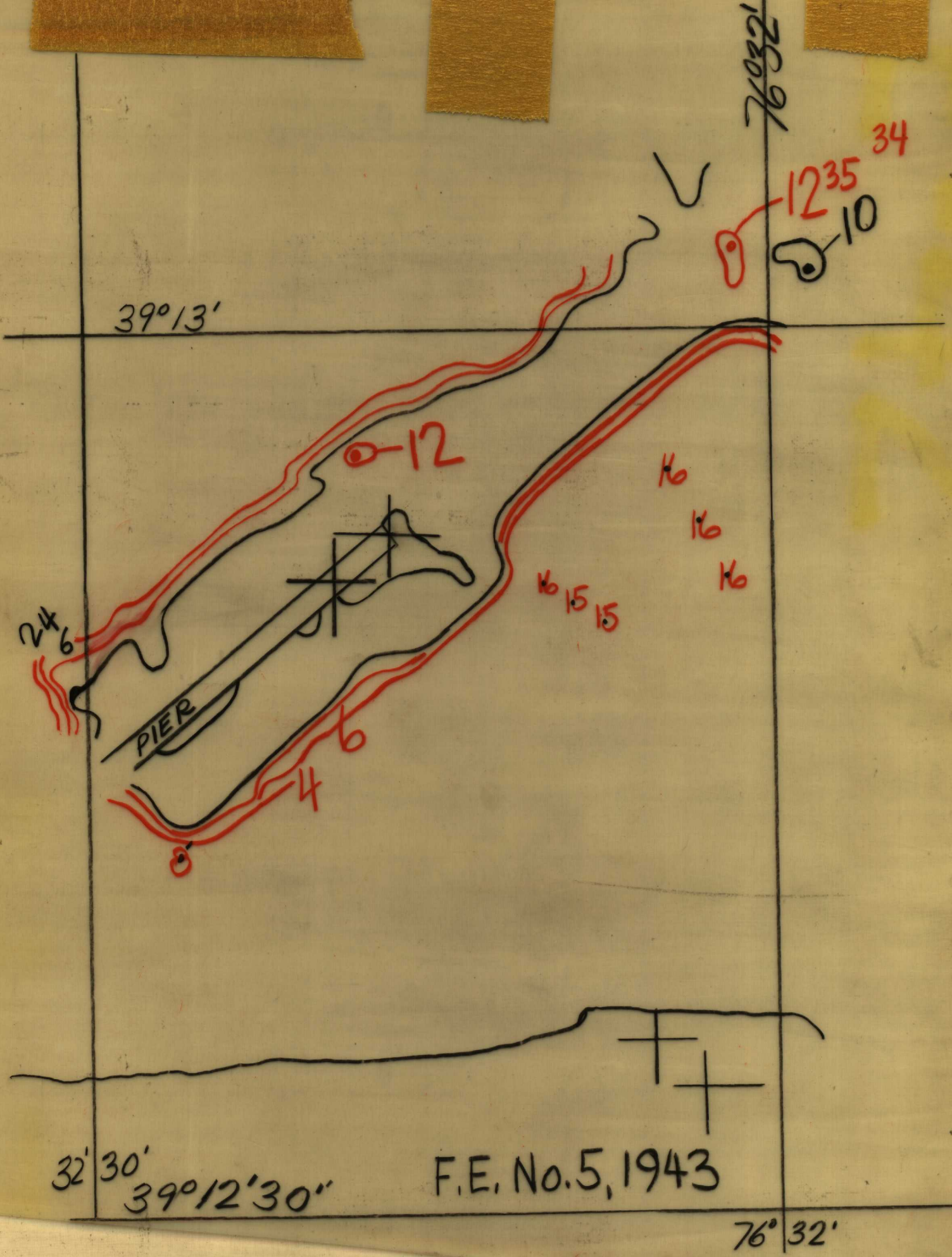
BASE MONUMENT 1915

Field examination No 5, 1943

32' 30"

76° 32'

39° 12' 30"



F.E. No. 5, 1943